

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
1	BRS	L1	22884	yttri\$4	USPA T; US-P GPUB	2003/04/04 16:18			0
2	BRS	L2	111221	same oxide	USPA T; US-P GPUB	2003/04/04 16:19			0
3	BRS	L3	75	radioactiv\$ same 2	USPA T; US-P GPUB	2003/04/04 17:24			0
4	BRS	L4	566996	microsphere same crystal or glass	USPA T; US-P GPUB	2003/04/04 17:25			0
5	BRS	L5	790256	crystal or glass	USPA T; US-P GPUB	2003/04/04 17:28			0
6	BRS	L6	17298	microsphere	USPA T; US-P GPUB	2003/04/04 17:25			0
7	BRS	L7	46296	same 5	USPA T; US-P GPUB	2003/04/04 17:25			0
8	BRS	L8	897	and 2	USPA T; US-P GPUB	2003/04/04 17:26			0
9	BRS	L9	1518	or 3	USPA T; US-P GPUB	2003/04/04 17:26			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
10	BRS	L10	81	9 and radioactiv\$	USPA T; US-P GPUB	2003/04/04 17:26			0
11	BRS	L11	34601 2	crystal	USPA T; US-P GPUB	2003/04/04 17:28			0
12	BRS	L12	26	10 and 11	USPA T; US-P GPUB	2003/04/04 17:59			0
13	IS&R	L13	2	((("5885547") or ("6258338"))).PN.	USPA T; US-P GPUB	2003/04/04 18:00			0
14	BRS	L14	2	1 and 13	USPA T; US-P GPUB	2003/04/04 18:23			0
15	BRS	L15	4633	yas	USPA T; US-P GPUB	2003/04/04 18:23			0
16	BRS	L16	3	yas-4	USPA T; US-P GPUB	2003/04/04 18:25			0
17	BRS	L17	3	coat\$4 and 16	USPA T; US-P GPUB	2003/04/04 18:31			0
18	BRS	L18	8	ypo4	USPA T; US-P GPUB	2003/04/04 18:32			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
19	BRS	L19	673	yttri\$4 adj5 phosph\$4	USPA T; US-P GPUB	2003/04/04 18:32			0
20	BRS	L20	25	19 and 6	USPA T; US-P GPUB	2003/04/04 18:50			0
21	BRS	L21	7768	silica adj5 coat\$	USPA T; US-P GPUB	2003/04/04 18:50		Truncation overflow.	1
22	BRS	L23	0	22 and 3	USPA T; US-P GPUB	2003/04/04 18:51			0
23	BRS	L24	11	22 and radioactiv\$	USPA T; US-P GPUB	2003/04/04 18:51			0
24	BRS	L22	119	21 and 7	USPA T; US-P GPUB	2003/04/04 18:53			0
25	BRS	L25	17	1 and 22	USPA T; US-P GPUB	2003/04/04 18:53			0
26	BRS	L26	119	21 and 7	USPA T; US-P GPUB	2003/04/04 19:04			0
27	IS&R	L27	785	((427/2.14) or (427/5) or (427/452) or (424/1.29) or (424/1.33-1.37)).CCLS	USPA T; US-P GPUB	2003/04/04 19:05			0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition	Errors
28	BRS	L28	28	7 and 27	USPA T; US-P GPUB	2003/04/04 19:06			0
29	BRS	L29	0	28 and 21	USPA T; US-P GPUB	2003/04/04 19:06			0
30	BRS	L30	20	28 and sillic\$4	USPA T; US-P GPUB	2003/04/04 19:06			0

L5 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS  
 RN 11130-29-3 REGISTRY  
 CN **Yttrium oxide (9CI)** (CA INDEX NAME)  
 PR 1314-36-9  
 MF O . Y  
 CI COM, TIS  
 LC STN Files: ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CBNB,  
 CEN, CHEMLIST, CIN, CSCHEM, IFICDB, IFIPAT, IFIADB, NIOSHTIC, PIRA,  
 PROMT, RTECS\*, TOXCENTER, TULSA, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

Component	Ratio	Component Registry Number
O	x	17778-80-2
Y	x	7440-65-5

267 REFERENCES IN FILE CA (1962 TO DATE)  
 5 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 267 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L5 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS  
 RN 1314-36-9 REGISTRY  
 CN Yttrium oxide (Y2O3) (8CI, 9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Diyttrium trioxide  
 CN Nanotek Y2O3  
 CN Y-F  
 CN YO 3-245  
 CN Yttria  
 CN **Yttrium oxide**  
 CN Yttrium oxide (YO1.5)  
 CN Yttrium sesquioxide  
 CN Yttrium trioxide  
 CN Yttrium(3+) oxide  
 CN Yttrium(III) oxide  
 AR 11130-29-3  
 MF O3 Y2  
 CI COM, MAN  
 LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,  
 CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM\*,  
 IFICDB, IFIPAT, IFIADB, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT,  
 RTECS\*, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*  
 32161 REFERENCES IN FILE CA (1962 TO DATE)  
 721 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 32182 REFERENCES IN FILE CAPLUS (1962 TO DATE)  
 55 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> s yttrium phosphate/cn  
 L6 0 YTRIUM PHOSPHATE/CN

=> s yttrium phosphate  
0 YTRIUM  
173160 PHOSPHATE  
L7 0 YTRIUM PHOSPHATE  
(YTRIUM(W) PHOSPHATE)

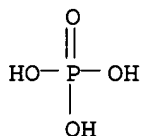
=> s yttrium phosphate  
1 YTRRIUM  
173160 PHOSPHATE  
L8 0 YTRRIUM PHOSPHATE  
(YTRRIUM(W) PHOSPHATE)

=> s yttrium phosphate/cn  
L9 0 YTRRIUM PHOSPHATE/CN

=> s yttrium phosphate/cn  
L10 2 YTTRIUM PHOSPHATE/CN

=> d 1-2

L10 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS  
RN 34895-03-9 REGISTRY  
CN Phosphoric acid, yttrium(3+) salt (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN **Yttrium phosphate**  
PR 13990-54-0  
MF H3 O4 P . x Y  
LC STN Files: CA, CAPLUS, GMELIN\*, IFICDB, IFIPAT, IFIUDB, USPATFULL  
(\*File contains numerically searchable property data)  
CRN (7664-38-2)

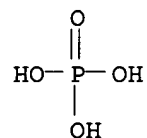


●x Y(III)

6 REFERENCES IN FILE CA (1962 TO DATE)  
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
6 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L10 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS  
RN 13990-54-0 REGISTRY  
CN Phosphoric acid, yttrium(3+) salt (1:1) (8CI, 9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN **Yttrium phosphate (6CI, 7CI)**  
OTHER NAMES:  
CN Yttrium orthophosphate  
CN Yttrium phosphate (YPO4)  
AR 31417-54-6, 34895-03-9  
MF H3 O4 P . Y  
LC STN Files: CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, GMELIN\*,  
IFICDB, IFIPAT, IFIUDB, PROMT, TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)

Other Sources: EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)  
CRN (7664-38-2)



● Y(III)

516 REFERENCES IN FILE CA (1962 TO DATE)  
33 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
516 REFERENCES IN FILE CAPLUS (1962 TO DATE)  
10 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

MF Ni . O3 Y2  
CI AYS  
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Ni	99	7440-02-0
Y2O3	1.4	1314-36-9

2 REFERENCES IN FILE CA (1962 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 16 OF 16 REGISTRY COPYRIGHT 2003 ACS  
RN 1314-36-9 REGISTRY  
CN Yttrium oxide (Y2O3) (8CI, 9CI) (CA INDEX NAME)  
OTHER NAMES:

CN Diyttrium trioxide  
CN Nanotek Y2O3  
CN Y-F  
CN YO 3-245  
CN Yttria  
CN Yttrium oxide  
CN Yttrium oxide (YO1.5)  
CN Yttrium sesquioxide  
CN Yttrium trioxide  
CN Yttrium(3+) oxide  
CN Yttrium(III) oxide

AR 11130-29-3

MF O3 Y2

CI COM, MAN

LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS,  
CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM\*,  
IFICDB, IFIPAT, IFIUDb, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT,  
RTECS\*, TOXCENTER, TULSA, USPAT2, USPATFULL, VTB

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

32161 REFERENCES IN FILE CA (1962 TO DATE)

721 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

32182 REFERENCES IN FILE CAPLUS (1962 TO DATE)

55 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 16 YTTRIA

=> d 1-16

L2 ANSWER 1 OF 16 REGISTRY COPYRIGHT 2003 ACS

RN 308076-80-4 REGISTRY \*

\* Use of this CAS Registry Number alone as a search term in other STN files may

result in incomplete search results. For additional information, enter HELP  
RN\* at an online arrow prompt (=>).

CN Synthetic fibers, yttrium-stabilized zirconium oxide (CA INDEX NAME)

OTHER NAMES:

CN Y 7Z

CN **Yttria-stabilized zirconia fibers**

CN Yttrium-stabilized zirconia fibers

CN Yttrium-stabilized zirconium oxide fibers

CN Zircar ZYW 15

CN Zirconia fibers, yttrium-stabilized

CN Zirconium oxide fibers, yttrium-stabilized

MF Unspecified

CI MAN, CTS

SR CA

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L2 ANSWER 2 OF 16 REGISTRY COPYRIGHT 2003 ACS

RN 199920-27-9 REGISTRY

CN Iron alloy, base, Fe 82,Al 16,Cr 2.2,Y2O3 0.5 (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **Aluminum 28, chromium 2, iron 69.9, yttria 0.1 (atomic)**

MF Al . Cr . Fe . O3 Y2

CI AYS

SR CA

LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Fe	82	7439-89-6
Al	16	7429-90-5
Cr	2.2	7440-47-3
Y2O3	0.5	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)

1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 3 OF 16 REGISTRY COPYRIGHT 2003 ACS

RN 149953-96-8 REGISTRY

CN Iron alloy, base, Fe 92,Y2O3 7.6 (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **Iron 98, yttria 2 (atomic)**

MF Fe . O3 Y2

CI AYS

SR CA

LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Fe	92	7439-89-6

Y203

7.6

1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 4 OF 16 REGISTRY COPYRIGHT 2003 ACS  
RN 148733-26-0 REGISTRY  
CN Iron alloy, base, Fe 93-99,Y203 0.6-6.6 (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN **Iron 90-99, yttria 1-10 (volume)**  
MF Fe . O3 Y2  
CI AYS  
SR CA  
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Fe	93 - 99	7439-89-6
Y203	0.6 - 6.6	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 5 OF 16 REGISTRY COPYRIGHT 2003 ACS  
RN 144903-45-7 REGISTRY  
CN Nickel alloy, base, Ni 98-99,ZrO2 0-1.6,Y203 0-1.4 (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN **Nickel 97.5, yttria 0-2.5, zirconia 0-2.5 (volume)**  
MF Ni . O3 Y2 . O2 Zr  
CI AYS  
SR CA  
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Ni	98 - 99	7440-02-0
ZrO2	0 - 1.6	1314-23-4
Y203	0 - 1.4	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 6 OF 16 REGISTRY COPYRIGHT 2003 ACS  
RN 141711-79-7 REGISTRY  
CN Tungsten alloy, base, W 94-100,Y203 0-6.1 (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN **Tungsten 80-100, yttria 0-20 (volume)**  
MF O3 Y2 . W  
CI AYS  
SR CA  
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
W	94 - 100	7440-33-7
Y203	0 - 6.1	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 7 OF 16 REGISTRY COPYRIGHT 2003 ACS  
RN 130295-14-6 REGISTRY  
CN Aluminum alloy, base, Al 92-98,Y2O3 1.6-7.8 (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN **Aluminum 99-99.8, yttria 0.2-1 (atomic)**  
MF Al . O3 Y2  
CI AYS  
SR CA  
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Al	92 - 98	7429-90-5
Y2O3	1.6 - 7.8	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 8 OF 16 REGISTRY COPYRIGHT 2003 ACS  
RN 130295-13-5 REGISTRY  
CN Aluminum alloy, base, Al 69-100,Y2O3 0-31 (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN **Aluminum 95-100, yttria 0-5 (atomic)**  
MF Al . O3 Y2  
CI AYS  
SR CA  
LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
Al	69 - 100	7429-90-5
Y2O3	0 - 31	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 9 OF 16 REGISTRY COPYRIGHT 2003 ACS  
RN 130141-75-2 REGISTRY  
CN Niobium alloy, base, Nb 99,Y2O3 1.2 (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN **Niobium 98, yttria 2 (volume)**  
MF Nb . O3 Y2  
CI AYS  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER

Component	Component Percent	Component Registry Number
Nb	99	7440-03-1
Y2O3	1.2	1314-36-9

4 REFERENCES IN FILE CA (1962 TO DATE)  
4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 10 OF 16 REGISTRY COPYRIGHT 2003 ACS  
 RN 125021-64-9 REGISTRY  
 CN Copper alloy, base, Cu 98,Y2O3 1.6 (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN **Copper 97, yttria 3 (volume)**  
 MF Cu . O3 Y2  
 CI AYS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Component	Component Percent	Component Registry Number
Cu	98	7440-50-8
Y2O3	1.6	1314-36-9

2 REFERENCES IN FILE CA (1962 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 11 OF 16 REGISTRY COPYRIGHT 2003 ACS  
 RN 119584-23-5 REGISTRY  
 CN Molybdenum alloy, base, Mo 99,Y2O3 1 (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN **Molybdenum 98, yttria 2 (volume)**  
 MF Mo . O3 Y2  
 CI AYS  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Component	Component Percent	Component Registry Number
Mo	99	7439-98-7
Y2O3	1	1314-36-9

4 REFERENCES IN FILE CA (1962 TO DATE)  
 4 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 12 OF 16 REGISTRY COPYRIGHT 2003 ACS  
 RN 119582-66-0 REGISTRY  
 CN Hafnium oxide (HfO2), alloy, HfO2 53,W 29,Mo 15,Y2O3 3.2 (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN **Hafnia 60, molybdenum 16.5, tungsten 16.5, yttria 7 (volume)**  
 MF Hf O2 . Mo . O3 Y2 . W  
 CI AYS  
 SR CA  
 LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
HfO2	53	12055-23-1
W	29	7440-33-7
Mo	15	7439-98-7
Y2O3	3.2	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 13 OF 16 REGISTRY COPYRIGHT 2003 ACS  
 RN 119563-58-5 REGISTRY  
 CN Tungsten alloy, base, W 51,HfO2 46,Y2O3 2.8 (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN **Hafnia 60, tungsten 33, yttria 7 (volume)**  
 MF Hf O2 . O3 Y2 . W  
 CI AYS  
 SR CA  
 LC STN Files: CA, CAPLUS

Component	Component Percent	Component Registry Number
W	51	7440-33-7
HfO2	46	12055-23-1
Y2O3	2.8	1314-36-9

1 REFERENCES IN FILE CA (1962 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 14 OF 16 REGISTRY COPYRIGHT 2003 ACS  
 RN 114168-16-0 REGISTRY  
 CN Yttrium zirconium oxide (Y0.16Zr0.92O2.08) (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN **8 mol%-yttria-stabilized zirconia**  
 CN 8YS  
 CN Denzir  
 CN HSY 8  
 CN HSY 8.0  
 CN KDP 1  
 CN NZP-C 8Y  
 CN OZC 8YC  
 CN TZ 8Y  
 CN United-FYT11  
 CN **zirconia-8 mol% yttria**  
 CN Zirconium yttrium oxide [(ZrO2)92(Y2O3)8]  
 DR 151595-22-1, 143929-09-3, 220855-16-3  
 MF O . Y . Zr  
 AF O2.08 Y0.16 Zr0.92  
 CI COM, TIS  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Component	Ratio	Component Registry Number
O	2.08	17778-80-2
Zr	0.92	7440-67-7
Y	0.16	7440-65-5

1271 REFERENCES IN FILE CA (1962 TO DATE)  
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1273 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L2 ANSWER 15 OF 16 REGISTRY COPYRIGHT 2003 ACS  
 RN 60771-19-9 REGISTRY  
 CN Nickel alloy, base, Ni 99,Y2O3 1.4 (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN **Nickel 97.5, yttria 2.5 (volume)**  
 CN Nickel 97.5, yttrium oxide 2.5 (volume)